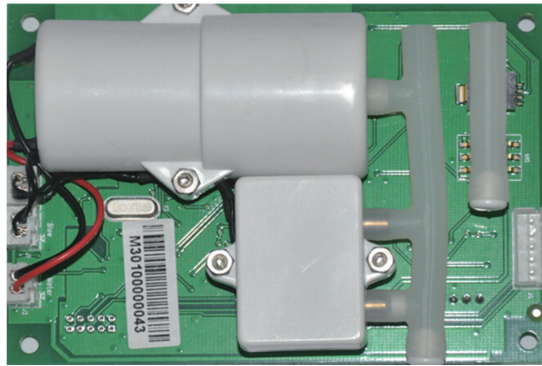


Non-Invasive Blood Pressure Module

MNIBP

MNIBP is used to measure related parameters such as systolic blood pressure, diastolic blood pressure, average blood pressure and pulse rate.



Dimension : 105 mm × 72 mm × 31 mm

SYS

DIA

MAP

PR

Features

- > With the monitoring function of parameters such as systolic blood pressure, mean blood pressure, diastolic blood pressure and pulse rate
- > Three measurement modes: manual, automatic and continuous
- > Three patient measurement modes: adult, child, and newborn
- > Real-time transmission of module working status, including hardware status, software status and sensor status
- > Adopting a unique algorithm, with the ability to resist motion interference and weak signal measurement
- > Pressure calibration function: continuously provide cuff pressure value to calibrate pressure accuracy
- > It has the function of gas leakage detection to detect whether the gas path is leaking
- > With double overvoltage protection (hardware overvoltage protection and software overvoltage protection)
- > Double timeout protection (module timeout protection, provide timing trigger port of upper computer)

Specifications

SYS

Range: adult: 40~270bpm
 Child: 40~235bpm
 Newborn: 40~130bpm
 Accuracy: Average deviation $\leq\pm 5$ mmHg
 Standard deviation $\leq\pm 8$ mmHg

DIA

Range: adult: 10~210bpm
 Child: 10~200bpm
 Newborn: 10~90bpm
 Accuracy: Average deviation $\leq\pm 5$ mmHg
 Standard deviation $\leq\pm 8$ mmHg

MAP

Range: adult: 20~230bpm
 Child: 20~225bpm
 Newborn: 20~100bpm
 Accuracy: Average deviation $\leq\pm 5$ mmHg
 Standard deviation $\leq\pm 8$ mmHg

PR

Range: adult: 30~240bpm
 Child: 30~240bpm
 Newborn: 40~240bpm
 Accuracy: ± 2 bpm
 Resolution: 1bpm

Cuff Pressure

Range: 0~300mmHg
 Accuracy: ± 2 mmHg or $\pm 1\%$ of reading (whichever is greater)
 Resolution: 1mmHg

Electical Specification

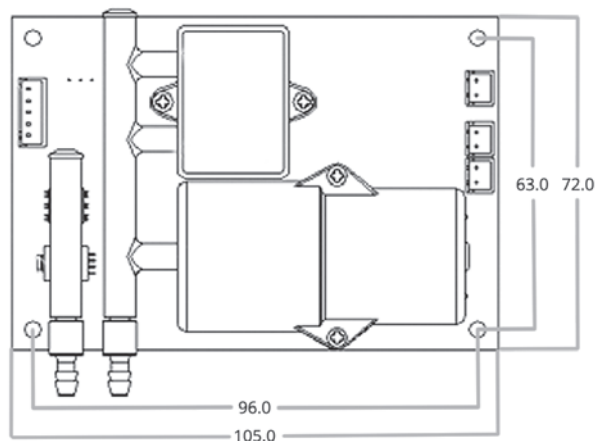
Power supply DC 12 V $\pm 5\%$
 Power consumption ≤ 5 W
 Communication TTL,USART
 Temperature Operating 0°C~ 70°C Storage -40°C~ 70°C

Compliance

Standard IEC 80601-2-30: 2018 IEC 60601-1-2:2014

Dimensions

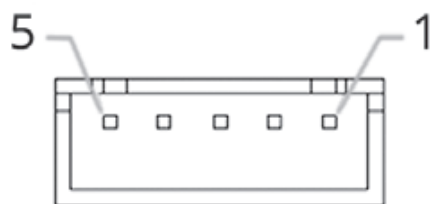
The board dimensions are given in millimeters.



Interfaces

Power and Communication Interface

The connector J5 shown below is used for the purpose of communication and power supply. The pin 1 is actually indicated by an arrow on the PCB.



The table shows the pin assignment of this connector.

Note 1: TXD pin is used for the data sent from the MNIBP/M301 module to the host.

Note 2: M_RST pin is a triggering pin for external reset. A high level will reset the module. M_RST is TTL level.

Pin No	Signal	Description
1	M_RST	External reset
2	TXD	UART Sending data from module to host
3	RXD	UART Receiving data from host to the module
4	+12V	Power Supply input 12V DC
5	GND	Ground

Blood Fressure Cuffs Reauire Ments








For evaluation purpose, a reusable adult cuff is provided with the module. However once modules are purchased to be integrated in equipment, the customer can also choose cuffs, which have been qualified as reliable and in conformance with the local regulation where the final product will be used.

Gas Fath Interfa CE

You can choose to use dual air connection to get better anti-interference effect. A single gas path mode can also be selected for a more compact design and easy connection in use.

Purchase Guider

Code	Name	Quantity	Description	Image
042--050102-00	MNIBP board	x1		
024-130101-00	Internal Pipe	10cm	Connect with Tee joint and cuff	
023-050103-00	Tee joint	x1	Connect with M301 board and Internal Pipe	
025-030106-00	Metal blood pressure connector	x1	female type connector Male type Connector	
041-007002-00	Nibp external tube	x1	Connect with cuff	
041-001024-01	Thigh Cuff Arm Range : 46-66cm	Optional	Connect with NIBP external tube	
041-001025-01	Large Adult Cuff Arm Range : 33-47cm	Optional	Connect with NIBP external tube	
041-001026-01	Adult Cuff Arm Range : 25-35cm	Optional	Connect with NIBP external tube	
041-001027-01	Adult Cuff Arm Range : 20-28cm	Optional	Connect with NIBP external tube	
041-001028-01	Child Cuff Arm Range : 18-26cm	Optional	Connect with NIBP external tube	

041-001029-01	Infant Cuff Arm Range : 10-19cm	Optional	Connect with NIBP external tube	
041-001032-01	Neonate Cuff Arm Range : 6-11cm	Optional	Connect with NIBP external tube	
041-001050-01	Neonate 1 size (disposable) Arm Range : 3-6cm	Optional	Connect with NIBP external tube	
041-001049-01	Neonate 2 size (disposable) Arm Range : 4-8cm	Optional	Connect with NIBP external tube	
041-001048-01	Neonate 3 size (disposable) Arm Range : 6-11cm	Optional	Connect with NIBP external tube	
041-001047-01	Neonate 4 size (disposable) Arm Range : 7-13cm	Optional	Connect with NIBP external tube	
041-001046-01	Neonate 5 size (disposable) Arm Range : 8-15cm	Optional	Connect with NIBP external tube	

* The data is subject to change without notice. Please refer to the manual for the contraindications and precautions